

S.B. Roll No.....

**INSTALLATIONS & MAINTENANCE OF ELECTRICAL EQUIPMENT**  
**5<sup>th</sup>/ELECT/0528/6552/May'16**

**Duration: 3 hrs**

**M. Marks=75**

**SECTION A**

**Q1. Fill in the blanks**

**15x1=15**

- a. Cutter are used for \_\_\_\_\_.
- b. Hexa-saw is main \_\_\_\_\_ used for cutting.
- c. Maintenance is the \_\_\_\_\_ for maintaining the machinery in working condition.
- d. The electric power can be transmitted by \_\_\_\_\_.
- e. The underground cable cannot be operated \_\_\_\_\_ above.
- f. The starting current is \_\_\_\_\_ times full load current.
- g. Do not \_\_\_\_\_ the motor on floor.
- h. Material used for the jumper should be \_\_\_\_\_ as that of line conductors.
- i. Main causes of failure of cables are \_\_\_\_\_ and \_\_\_\_\_.
- j. Buchholz relay is used in \_\_\_\_\_.
- k. Tappings in the transformer usually provided on \_\_\_\_\_.
- l. Overload protection of motor will \_\_\_\_\_ provide protection against short circuit.
- m. Fuse wire metal \_\_\_\_\_ melting point.
- n. Miniature circuit breaker is \_\_\_\_\_ costly than rewirable fuse.
- o. Meggar is an instrument for measuring \_\_\_\_\_ resistance.

**SECTION B**

**Q2 Attempt any SIX questions:**

**6x5=30**

- a. Write the various precautions in handling the tools.
- b. Explain any one method of laying of cables with a neat diagram.
- c. Explain the procedure of inspection, storage and handling of power transformer.
- d. Name the various instrument used for testing the installation.
- e. Explain how a meggar help in inspecting the domestic wiring.
- f. Write the maintenance schedule of motor.
- g. What are qualities of good lightening arrestor?
- h. What precautions are necessary in making the joints?

**SECTION C**

**Q3. Attempt any THREE questions:**

**3x10=30**

- a. What are various commissioning tests performed on a transformer?
- b. What are various test carried out on a A.C. motors?
- c. Explain the air blast circuit breaker with suitable diagram.
- d. What are the various methods of fault location in cables?
- e. Explain half yearly, yearly and two yearly maintenance of substation.